METHOD, APPARATUS, AND PROGRAM PRODUCT FOR MATCHING MULTIVARIATE DATA TO FUZZY SETS

Abstract of the Invention

Disclosed is a controller that includes a curve matching mechanism. The curve matching mechanism employs Fuzzy Logic to compare input curves to standard curves and to thereby characterize the input curves. Also disclosed in an automotive environment for the curve matching mechanism in which a Fuzzy Controller is used to receive time series data (i.e., input curves) and to present the input curves to the curve matching mechanism. The controller then uses the output of the curve matching mechanism to adjust engine function.